

What is claimed is:

1. A foam glass tile comprising a closed pore outer skin on at least one side, having an average pore size of 1.0 mm or less, a density between 30 lb./cu. ft. and 100 lb./cu. ft and compression strength of 6000 lb./sq. in. or greater.
2. The foam glass tile according to claim 1, wherein said average pore size is .7 mm or less.
3. The foam glass tile according to claim 1, wherein said average pore size is .6 mm or less.
4. The foam glass tile according to claim 1, wherein said average pore size is .5 mm or less.
5. The foam glass tile according to claim 1, wherein said average pore size is .4 mm or less.
6. The foam glass tile according to claim 1, wherein said average pore size is .3 mm or less.
7. The foam glass tile according to claim 1, wherein said compression strength is 8,000 lb./sq. in. or greater.
8. The foam glass tile according to claim 1, wherein said compression strength is 10,000 lb./sq. in. or greater.
9. The foam glass tile according to claim 1, wherein said compression strength is 12,000 lb./sq. in. or greater.

10. The foam glass tile according to claim 1, wherein said compression strength is 14,000 lb./sq. in. or greater.
11. The foam glass tile according to claim 1, wherein said tile has a tile surface area is at least 1 feet by 1 feet.
12. The foam glass tile according to claim 1, wherein said tile has a tile surface area is at least 2 feet by 2 feet.
13. The foam glass tile according to claim 1, wherein said tile has a tile surface area at least 4 feet by 4 feet.
14. The foam glass tile according to claim 1, wherein said density is 40 lb./cu. ft. or greater.
15. The foam glass tile according to claim 1, wherein said density is 50 lb./cu. ft. or greater.
16. The foam glass tile according to claim 1, wherein said density is 60 lb./cu. ft. or greater.
17. The foam glass tile according to claim 1, wherein said tile has a thickness of at least 2 inches.
18. The foam glass tile according to claim 1, wherein said tile has a thickness of at least 3 inches.
19. The foam glass tile according to claim 1, wherein said tile has a thickness of at least 4 inches.
20. The foam glass tile according to claim 1, wherein said tile has a weight of at least 30 lbs.

21. The foam glass tile according to claim 1, wherein said tile has a weight of at least 35 lbs.

22. The foam glass tile according to claim 1, wherein said tile has a weight of at least 40 lbs.

23. The foam glass tile according to claim 1, wherein said tile has a weight of at least 50 lbs.

24. The foam glass tile according to claim 1, wherein said tile has a weight of at least 65 lbs.

25. The foam glass tile according to claim 1, wherein said tile has a weight of at least 100 lbs.

26. The foam glass tile according to claim 1, wherein said tile is assembled with at least one other tile of like construction to form a panel, said panel is used as a lightweight building facade.

27. The foam glass tile according to claim 26, wherein said building facade is assembled into at least a portion of a building so that said portion of said building will be substantially resistant to earthquake damage.

28. The foam glass tile according to claim 1, wherein said outer skin is a glazed outer surface of said foam glass tile.

29. The foam glass tile according to claim 1, wherein said closed pore structure is textured for architectural appeal.

30. The foam glass tile according to claim 1, wherein said tile further comprises an interior portion and said tile outer skin comprises an additive to make its surface appear a different color than said interior portion of said tile.

31. A foam glass tile comprising a closed pore outer skin on at least one side, having an average pore size of 1.0 mm or less, a weight of 10 lbs. or greater, and compression strength of 6000 lb./sq. in. or greater.

32. The foam glass tile according to claim 31, wherein said average pore size is .7 mm or less

33. The foam glass tile according to claim 31, wherein said average pore size is .6 mm or less.

34. The foam glass tile according to claim 31, wherein said average pore size is .5 mm or less.

35. The foam glass tile according to claim 31, wherein said average pore size is .4 mm or less.

36. The foam glass tile according to claim 31, wherein said average pore size is .3 mm or less.

37. The foam glass tile according to claim 31, wherein said compression strength is 8,000 lb./sq. in. or greater.

38. The foam glass tile according to claim 31, wherein said compression strength is 10,000 lb./sq. in. or greater.

39. The foam glass tile according to claim 31, wherein said compression strength is 12,000 lb./sq. in. or greater.

40. The foam glass tile according to claim 31, wherein said compression strength is 14,000 lb./sq. in. or greater.

41. The foam glass tile according to claim 31, wherein said tile has a tile surface area is at least 1 foot by 1 foot.

42. The foam glass tile according to claim 31, wherein said tile has a tile surface area is at least 2 feet by 2 feet.

43. The foam glass tile according to claim 31, wherein said tile has a tile surface area at least 4 feet by 4 feet.

44. The foam glass tile according to claim 31, wherein said tile has a density 40 lb./cu. ft. or greater.

45. The foam glass tile according to claim 31, wherein said tile has a density 50 lb./cu. ft. or greater.

46. The foam glass tile according to claim 31, wherein said tile has a density 60 lb./cu. ft. or greater.

47. The foam glass tile according to claim 31, wherein said tile has a thickness of at least 2 inches.

48. The foam glass tile according to claim 31, wherein said tile has a thickness of at least 3 inches.

49. The foam glass tile according to claim 31, wherein said tile has a thickness of at least 4 inches.

50. The foam glass tile according to claim 31, wherein said weight is at least 20 lbs.

51. The foam glass tile according to claim 31, wherein said weight is at least 30 lbs.
52. The foam glass tile according to claim 31, wherein said weight is at least 35 lbs.
53. The foam glass tile according to claim 31, wherein said weight is at least 40 lbs.
54. The foam glass tile according to claim 31, wherein said weight is at least 50 lbs.
55. The foam glass tile according to claim 31, wherein said weight is at least 65 lbs.
56. The foam glass tile according to claim 31, wherein said weight is at least 100 lbs.
57. The foam glass tile according to claim 31, wherein said tile is assembled with at least one other tile of like construction to form a panel, said panel is used as a lightweight building facade.
58. The foam glass tile according to claim 57, wherein said building facade is assembled into at least a portion of a building so that said portion of said building will be substantially resistant to earthquake damage.
59. The foam glass tile according to claim 31, wherein said tile is assembled with at least one other tile of like construction to form a preassembled structure, said preassembled structure is a column, panel or a floor in a building structure.

60. The foam glass tile according to claim 31, wherein said outer skin is a glazed outer surface of said foam glass tile.

61. The foam glass tile according to claim 31, wherein said closed pore structure is textured for architectural appeal.

62. The foam glass tile according to claim 31, wherein said tile further comprises an interior portion and said tile outer skin comprises an additive to make its surface appear a different color than said interior portion of said tile.

63. A foam glass tile having an average pore size of .5 mm or less, a density of 30 lb./cu. ft. or greater and a compression strength 12,500 lb./sq. in. or greater.

64. The foam glass tile according to claim 63, wherein said average pore size is .4 mm or less.

65. The foam glass tile according to claim 63, wherein said average pore size is .3 mm or less.

66. The foam glass tile according to claim 63, wherein said compression strength is 14,000 lb./sq. in. or greater.

67. The foam glass tile according to claim 63, wherein said tile has a tile surface area is at least 1 foot by 1 foot.

68. The foam glass tile according to claim 63, wherein said tile has a tile surface area is at least 2 feet by 2 feet.

69. The foam glass tile according to claim 63, wherein said tile has a tile surface area at least 4 feet by 4 feet.

70. The foam glass tile according to claim 63, wherein said density is 40 lb./cu. ft. or greater.

71. The foam glass tile according to claim 63, wherein said density is 50 lb./cu. ft. or greater.

72. The foam glass tile according to claim 63, wherein said density is 60 lb./cu. ft. or greater.

73. The foam glass tile according to claim 63, wherein said tile has a thickness of at least 2 inches.

74. The foam glass tile according to claim 63, wherein said tile has a thickness of at least 3 inches.

75. The foam glass tile according to claim 63, wherein said tile has a thickness of at least 4 inches.

76. The foam glass tile according to claim 63, wherein said tile has a weight of at least 20 lbs.

77. The foam glass tile according to claim 63, wherein said tile has a weight of at least 30 lbs.

78. The foam glass tile according to claim 63, wherein said tile has a weight of at least 35 lbs.

79. The foam glass tile according to claim 63, wherein said tile has a weight of at least 40 lbs.

80. The foam glass tile according to claim 63, wherein said tile has a weight of at least 50 lbs.



81. The foam glass tile according to claim 63, wherein said tile has a weight of at least 65 lbs.

82. The foam glass tile according to claim 63, wherein the tile has a weight of at least 100 lbs.

83. The foam glass tile according to claim 63, wherein the tile is assembled with at least one other tile of like construction to form a panel, said panel is used as a lightweight building facade.

84. The foam glass tile according to claim 83, wherein said building facade is assembled into at least a portion of a building so that said portion of said building will be substantially resistant to earthquake damage.

85. The foam glass tile according to claim 63, wherein said tile is assembled with at least one other tile of like construction to form a preassembled structure, said preassembled structure is a column, panel or a floor in a building structure.

86. The foam glass tile according to claim 63, wherein said tile has a closed pore structure.

87. The foam glass tile according to claim 86, wherein said outer skin is a glazed outer surface of said foam glass tile.

88. The foam glass tile according to claim 86, wherein said closed pore structure is textured for architectural appeal.

89. The foam glass tile according to claim 86, wherein said tile further comprises an interior portion and said tile outer skin comprises an additive to make its surface appear a different color than said interior portion of said tile.